

Abstract

In a data processing system having a processor unit, a working memory and a media unit, an input unit for inputting data and an output unit for outputting data as well as a network control unit and a bi-directional interface for networking the data processing system with a plurality of interconnected data processing systems, as well as an access filter for defining access rights for data stored on the media unit, one obtains easy changing of the protection code of the access filter in that the access filter is provided in an input-output controller (IO controller) of the data processing system between the working memory, on the one hand, and the media unit and the network control unit, on the other hand.

(FIG. 1)

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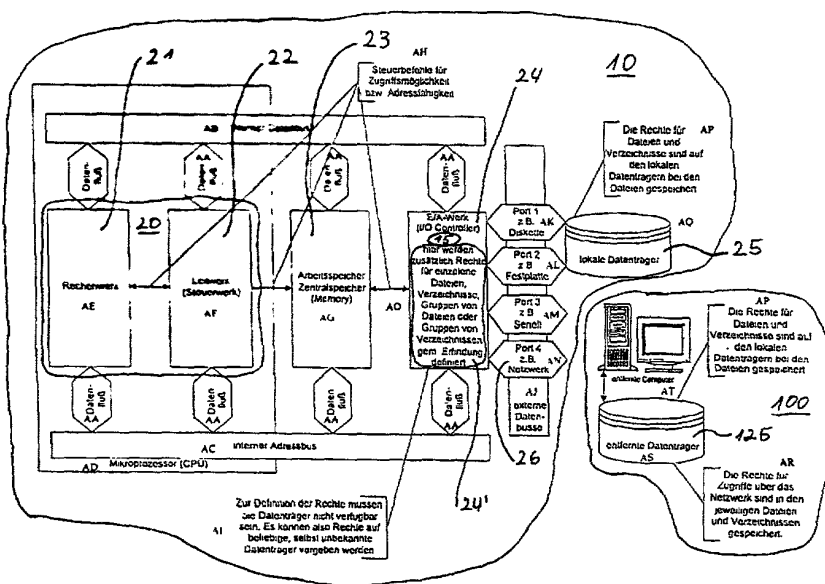
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(54) Title: METHOD AND DEVICE FOR CHANGEABLY DEFINING ACCESS RIGHTS TO COMPUTER FILES

(54) Bezeichnung: VERFAHREN UND VORRICHTUNG ZUM ÄNDERBAREN DEFINIEREN VON ZUGRIFFSRECHTEN AUF COMPUTERDATEIEN



(57) Abstract: The invention relates to a data processing system comprising a processor unit, a main memory and a data carrier unit, an inputting unit for inputting data and an outputting unit for outputting data as well as a network control unit and a bi-directional interface. The data processing system can be networked to a plurality of data processing systems by means of said interface, whereby said data processing systems are connected to one another. The inventive data processing system also comprises an access filter for defining access rights to data which is stored in the data carrier unit. The aim of the invention is to be able to slightly change the security code of the access filter. The access filter is provided in an input/output mechanism (IO)

AA ... DATA FLOW
AB ... INTERNAL DATA BUS
AC ... INTERNAL ADDRESS BUS
AD ... MICROPROCESSOR (CPU)
AE ... ARITHMETIC UNIT
AF ... CONTROL UNIT
AG ... MAIN MEMORY
AH ... CENTRAL STORAGE (MEMORY)
AI ... THE DATA CARRIERS ARE NOT REQUIRED FOR DEFINING RESPECTIVE RIGHTS. RIGHTS CAN ALSO BE ALLOCATED TO ANY, EVEN UNKNOWN DATA CARRIERS
AJ ... EXTERNAL DATA BUSES
AK ... PORT 1
AL ... PORT 2
AM ... PORT 3
AN ... PORT 4
AO ... IO CONTROLLER
AP ... HERE SUPPLEMENTARY RIGHTS FOR INDIVIDUAL DATA FILES, DIRECTORIES, ARRAYS OF DATA FILES OR ARRAYS OR DIRECTORIES ACCORDING TO THE INVENTION ARE DEFINED
AQ ... THE RIGHTS FOR DATA FILES AND DIRECTORIES ARE SAVED ON THE LOCAL DATA CARRIERS UNDER THE DATA FILES
AR ... THE RIGHTS FOR ACCESS VIA THE NETWORK ARE SAVED IN THE RESPECTIVE DATA FILES AND DIRECTORIES
AS ... REMOTE DATA CARRIERS
AT ... REMOTE COMPUTERS
AU ... PORT 5
AV ... PORT 6
AW ... PORT 7
AX ... PORT 8
AY ... PORT 9
AZ ... PORT 10
BA ... PORT 11
BB ... PORT 12
BC ... PORT 13
BD ... PORT 14
BE ... PORT 15
BF ... PORT 16
BG ... PORT 17
BH ... PORT 18
BI ... PORT 19
BJ ... PORT 20
BK ... PORT 21
BL ... PORT 22
BM ... PORT 23
BN ... PORT 24
BO ... PORT 25
BP ... PORT 26
BQ ... PORT 27
BR ... PORT 28
BS ... PORT 29
BT ... PORT 30
BU ... PORT 31
BV ... PORT 32
BW ... PORT 33
BX ... PORT 34
BY ... PORT 35
BZ ... PORT 36
CA ... PORT 37
CB ... PORT 38
CC ... PORT 39
CD ... PORT 40
CE ... PORT 41
CF ... PORT 42
CG ... PORT 43
CH ... PORT 44
CI ... PORT 45
CJ ... PORT 46
CK ... PORT 47
CL ... PORT 48
CM ... PORT 49
CN ... PORT 50
CO ... PORT 51
CP ... PORT 52
CQ ... PORT 53
CR ... PORT 54
CS ... PORT 55
CT ... PORT 56
CU ... PORT 57
CV ... PORT 58
CW ... PORT 59
CX ... PORT 60
CY ... PORT 61
CZ ... PORT 62
DA ... PORT 63
DB ... PORT 64
DC ... PORT 65
DD ... PORT 66
DE ... PORT 67
DF ... PORT 68
DG ... PORT 69
DH ... PORT 70
DI ... PORT 71
DJ ... PORT 72
DK ... PORT 73
DL ... PORT 74
DM ... PORT 75
DN ... PORT 76
DO ... PORT 77
DP ... PORT 78
DQ ... PORT 79
DR ... PORT 80
DS ... PORT 81
DT ... PORT 82
DU ... PORT 83
DV ... PORT 84
DW ... PORT 85
DX ... PORT 86
DY ... PORT 87
DZ ... PORT 88
EA ... PORT 89
EB ... PORT 90
EC ... PORT 91
ED ... PORT 92
EE ... PORT 93
EF ... PORT 94
EG ... PORT 95
EH ... PORT 96
EI ... PORT 97
EJ ... PORT 98
EK ... PORT 99
EL ... PORT 100

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